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### Abstract of the Disclosure

An antimicrobial and chemical deactivating composition for use in a liquid medium or for incorporation into a coating, structural plastic materials, thin microporous membranes, textiles and sponges. The composition includes macrosized or submicron particles of silver, platinum with silver and their salts with parabens, oxide, salicylate, acetate, citrate, benzoate and phosphate along with copper and zinc salts of the same.